

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/010155

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> H04M1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H04M1/00, H04M1/24-1/62, H04M1/66-1/82Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005  
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| X         | JP 2002-94612 A (NEC Corp.),<br>29 March, 2002 (29.03.02),<br>Claim 1<br>(Family: none)   | 1-5                   |
| X         | JP 2001-274907 A (NEC Shizuoka, Ltd.),<br>05 October, 2001 (05.10.01),<br>Par. Nos. [0022] to [0045]; Figs. 3, 4, 6,<br>9, 10<br>(Family: none) | 1-5                   |
| A         | JP 2000-138742 A (Sharp Corp.),<br>16 May, 2000 (16.05.00),<br>Full text; all drawings<br>(Family: none)  | 1-5                   |

 Further documents are listed in the continuation of Box C. See patent family annex.

|   |  |
|---|--|
| * Special categories of cited documents:  |  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "E" earlier application or patent but published on or after the international filing date   | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means  | "&" document member of the same patent family  |
| "P" document published prior to the international filing date but later than the priority date claimed  |  |

Date of the actual completion of the international search  
22 June, 2005 (22.06.05)Date of mailing of the international search report  
05 July, 2005 (05.07.05)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                         | Relevant to claim No. |
|-----------|--|-----------------------|
| A         | JP 1-195749 A (Toshiba Corp.),<br>07 August, 1989 (07.08.89),<br>Full text; all drawings<br>(Family: none) | 1-5                   |